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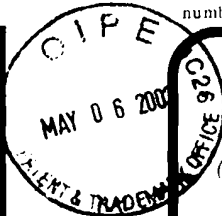


PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OBM 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	097862,417
Filing Date	23 May 2001
First Named Inventor	WANG, Xiao Bing
Group Art Unit	3712
Examiner Name	CHAKRABARTI, Arun
Attorney Docket Number	TRIM4

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TECHNOLOGY CENTER R3700

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ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached = check # 313335 for \$180.00 <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard; Substitute Form PTO-1449; Copies of Cited References
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Remarks:

TECHNOLOGY CENTER R3700

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jacqueline Haley Reg. No.: 41,457
Signature	
Date	May 1, 2003

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PTO/SB/17 (10-02)
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FEE TRANSMITTAL

for FY 2003

Patent fees are subject to annual revision

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$180.00)

Complete if Known

Application Number	09/862,417
Filing Date	23 May 2001
First Named Inventor	WANG, Xiao Bing
Examiner Name	CHAKRABARTI, Arun
Group Art Unit	1634
Attorney Docket No.	TRIM4

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money ☐ Other ☐ None
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☐ Charge any additional fee(s) during the pendency of this application
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FEE CALCULATION

1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
1001	740	2001	370	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	510	2003	255	Plant filing fee	
1004	740	2004	370	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1) (\$)					

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Extra Claims Fee from Fee Paid
below

Total Claims - 20** = X =
Independent Claims - 3** = X =
Multiple Dependent =

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR after Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	55	2251	55	Extension for reply within first month	
1252	400	2252	400	Extension for reply within second month	
1253	460	2253	460	Extension for reply within third month	
1254	1440	2254	1440	Extension for reply within fourth month	
1255	980	2255	980	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1280	2453	640	Petition to revive - unintentional	
1501	1,280	2501	640	Utility issue fee (or reissue)	
1502	460	2502	230	Design issue fee	
1503	620	2503	310	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	\$ 180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	740	2809	370	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	740	2810	370	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	740	2801	370	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$180.00)

SUBMITTED BY

Name (Print/Type)	Jacqueline Haley	Registration. No. (Attorney/Agent)	41,457	Telephone	(404) 885-3561
Signature	Jacqueline Haley	Date	May 1, 2003		

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

WANG, Xiao Bing

Serial No.: 09/862,417

Filed: 23 May 2001

For: ISOMETRIC PRIMER EXTENSION
METHOD AND KIT FOR
DETECTION AND QUANTIFICATION
OF SPECIFIC NUCLEIC ACID

Group Art Unit: 3712

Examiner: CHAKRABARTI, Arun

Atty. Docket No. TRIM4

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May 1, 2003

Commissioner for Patents
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Sir:

In accordance with the continuing duty under 37 C.F.R. § 1.56 to disclose to the United States Patent and Trademark Office any information that may be material to the patentability of the above-identified invention, Applicant hereby discloses the references listed on the attached Form PTO-1449 for the above-identified patent application along with copies of each listed

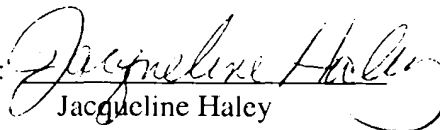
reference. An English translation of reference D (RU 97117182) is also included pursuant to M.P.E.P. 609 III A (3).

The submission of these references shall not serve as an indication that a search has been conducted on the claimed subject matter, nor shall the submission be deemed an admission that these references are, or are considered to be, material to the patentability of the above-identified patent application.

Applicant has enclosed check # 313335 in the amount of \$180.00 to cover the fee under 37 C.F.R. § 1.97 (c) and 37 C.F.R. § 1.17 (p). No other fee is deemed due in connection with filing this Supplemental Information Disclosure Statement, however, if a fee is deemed to be due the Commissioner is hereby authorized to charge such fee to Deposit Account No. 20-1507.

Respectfully submitted,

TROUTMAN SANDERS LLP

By: 
Jacqueline Haley
Reg. No. 41,457

Troutman Sanders LLP
Bank of America Plaza, Suite 5200
600 Peachtree Street, N.E.
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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 Of 3

Complete If Known

Application Number	09/862,417
Filing Date	23 MAY 2001
First Named Inventor	WANG, Xiao Bing
Group Art Unit	1634
Examiner Name	CHAKRABARTI, Arun
Attorney Docket Number	TRIM4

OTHER NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T ¹
	E	Fahy et al., Multiplex Fluorescence-based Primer Extension Method for Quantitative Mutation Analysis of Mitochondrial DNA and its Diagnostic Application for Alzheimer's Disease, NUCLEIC ACID RESEARCH 25, 3102-3109 (1997)	
	F	Kinzler et al., Identification of FAP Locus Genes from Chromosome 5q21, SCIENCE 253, 661-665 (1991)	
	G	Joslyen et al., Identification of Deletion Mutations and Three New Genes at the Familial Polyposis Locus, CELL 66, 601-613 (1991)	
	H	Nishisho et al., Mutations of Chromosome 5q21 Genes in FAP and Colorectal Cancer Patients, SCIENCE 253, 665-669 (1991)	
	I	Konopka et al., An Alteration of the Human c-abl Protein in K562 Leukemia Cells Masks Associated Tyrosine Kinase Activity, CELL 37, 1035 (1984)	
	J	Botstein et al., Construction of a Genetic Linkage Map in Man Using Restriction Fragment Length Polymorphisms, AM. J. HUM. GENET 32, 314-331 (1980)	
	K	White et al., Chromosome Mapping with DNA Markers, SCIENTIFIC AMERICAN 258, 40-48 (1988)	
	L	Howell et al., A Heteroplasmic LHON Family: Tissue Distribution and Transmission of the 11778 Mutation, AM. J. HUM. GENET 55, 203-206 (1994)	
	M	Studencki et al., Discrimination among the Human β^A , β^S , and β^C Globin Genes Using Allele-Specific Oligonucleotide Hybridization Probes, AM. J. HUM. GENET. 37, 42-51 (1985)	
	N	Saiki et al., Analysis of Enzymatically Amplified β -globin and HLA-DQ α DNA with Allele-Specific Oligonucleotide Probes, NATURE 324, 163-166 (1986)	
	O	Landegren et al., A Ligase-Mediated Gene Detection Technique, SCIENCE 241, 1077-1080 (1988)	

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Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 Of 3

Application Number	09/862,417
Filing Date	23 MAY 2001
First Named Inventor	WANG, Xiao Bing
Group Art Unit	1634
Examiner Name	CHAKRABARTI, Arun
Attorney Docket Number	TRIM4

OTHER NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published	T ²
	P	Wu et al., Allele-Specific Enzymatic Amplification of β -globin Genomic DNA for Diagnosis of Sickle Cell Anemia, PROC. NATL. ACAD. SCI. 86, 2757-2760 (1989)	
	Q	Okayama et al., Rapid, Nonradioactive Detection of Mutations in the Human Genome by Allele-Specific Amplification, J. LAB. CLIN. MED. 114, 105-113 (1989)	
	R	Kuppuswamy et al., Single Nucleotide Primer Extension to Detect Genetic Diseases: Experimental Application to Hemophilia B (factor IX) and Cystic Fibrosis Genes, PROC. NATL. ACAD. SCI. 88, 1143-1147 (1991)	
	S	Collins et al., Rearrangement and Amplification of c-abl Sequences in the Human Chronic Myelogenous Leukemia Cell Line K-562, S.J. PROC. NATL. ACAD. SCI. USA 80, 4813-4817 (1983)	
	T	Orita et al., Detection of Polymorphisms of Human DNA by Gel Electrophoresis as Single-strand Conformation Polymorphisms, PROC. NATL. ACAD. SCI. USA 86, 2666-2670 (1989)	

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